

PATENT ABSTRACTS OF JAPAN

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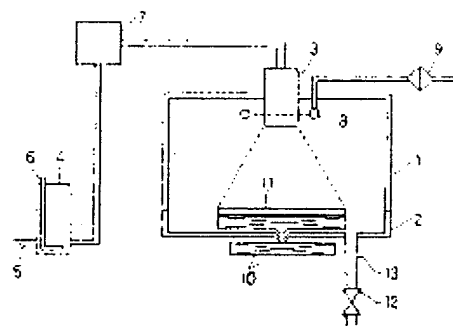
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(54) CLEANING METHOD

(57)Abstract:

PURPOSE: To prevent a static electricity from generating due to a collision when cleaning fluid is injected to a matter to be cleaned or a friction of air by dissolving ozone in water, and cleaning the matter to perform oxidative destruction of organic materials, on the matter to be cleaned.

CONSTITUTION: An upper chamber 1 is raised, a semiconductor wafer 11 is conveyed into a cleaning chamber, supported fixedly on an induction motor 10, and the chamber 1 is moved down to be connected to a lower chamber 2. The chamber is sealed in this state. Then, pure water is introduced by a pure water inlet tube 5 into a bubbler tank 4, ozone is introduced by an ozone inlet tube 6 which is arrived at the bottom of the tank 4 through the upper face of the tank 4, bubbled in the tank 4 to dissolve the ozone in the water. Cleaning fluid formed by the dissolving is injected through a supply tube by a high pressure pump 7 from a high pressure nozzle 3 provided at the center of the upper face of the chamber 1 on a semiconductor wafer 11 which is, for example, rotated at 1000rpm by the motor 10. Thus, organic materials on the wafer 11 is subjected to oxidative destruction.



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